



## ! SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Name of product WEICON A Hardener  
Code-Nr. 100002

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

2-Component Epoxy Resin - Hardener Component

### 1.3. Details of the supplier of the safety data sheet

#### Distributor

WEICON GmbH & Co. KG  
Königsberger Str. 255,, DE-48157 Münster  
Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322 - 244  
E-Mail : msds@weicon.de  
Internet : www.weicon.de

#### Advice

Produktsicherheit / Product-Safety-Department  
Phone ++49(0)251 / 9322 - 0  
E-mail (competent person):  
msds@weicon.de

### 1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:  
++44 1865 407333 (English)  
TRANSPORT EMERGENCY CONTACT - UK, UAE, South  
Africa (24h): Tel: ++44 1865 407333 (English)

#### Manufacturer

WEICON GmbH & Co. KG  
Königsberger Str. 255, DE-48157 Münster

### 1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):  
Tel: ++49 69 222 25285 (Deutsch, Englisch)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Skin Corr. 1A	H314	
Eye Dam. 1	H318	
Skin Sens. 1	H317	
Aquatic Chronic 3	H412	

#### Hazard Statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS05



GHS07

**Signal word**

Danger

**Hazard Statements**

- H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

- P102 Keep out of reach of children.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container to hazardous or special waste collection point.

**Hazardous ingredients for labeling**

TRIETHYLENETETRAMINE, PROPOXYLATED

**2.3. Other hazards**

When grinding/processing the cured material, a dust containing quartz can be produced.

**Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures**

**Description**

Modified polyamine

**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
90-72-2	202-013-9	2,4,6-Tris (dimethylaminomethyl) phenol	1 - 3	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1B, H317 / Aquatic Chronic 3, H412
112-24-3	203-950-6	trientine	7 - 13	Acute Tox. 4, H302; H312 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412
26950-63-0	500-055-5	TRIETHYLENETETRAMINE, PROPOXYLATED	13 - 30	Acute Tox. 4, H312 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Skin Sens. 1, H317 / Aquatic Chronic 3, H412

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

Seek medical treatment immediately.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.

Seek medical treatment immediately.

In case of skin contact, rinse with water for at least 10 minutes.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

Give plenty of water to drink in small sips.

**4.2. Most important symptoms and effects, both acute and delayed****Physician's information / possible symptoms**

Unconsciousness

vomiting

Allergic symptoms

Skin burns

Nausea

Gastrointestinal complaints

skin irritation

**Physician's information / possible dangers**

allergic reactions

Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed****Treatment (Advice to doctor)**

Keep under medical supervision for at least 48 hours.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

### 5.2. Special hazards arising from the substance or mixture

Metal oxides

In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

#### Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

### 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Open and handle container with care!

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in closed original container.

**Advice on storage compatibility**

Do not store with acids or alkalis.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

**Further information on storage conditions**

Store closed container at cool and aired place.

Protect from frost.

Protect from heat and direct solar radiation.

Storage temperature between 2°C to 40°C

**7.3. Specific end use(s)****Recommendation(s) for intended use**

See section 1.2

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
112-24-3	trientine	20 mg/kg	DNEL short-term oral (acute)	
		0,41 mg/kg bw/day	DNEL long-term oral (repeated)	
		1 mg/kg	DNEL acute dermal, short-term (local)	
		8 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		0,028 mg/ kg bw/day	DNEL long-term dermal (local)	
		0,57 mg/kg bw/day	DNEL long-term dermal (systemic)	
		5380 mg/m3	DNEL acute inhalative (systemic)	
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	1 mg/m3	DNEL long-term inhalative (systemic)	
		0,31 mg/m3	DNEL long-term inhalative (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
112-24-3	trientine	0,038 mg/l	PNEC aquatic, marine water	



# Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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## WEICON A Hardener

### DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		0,19 mg/l	PNEC aquatic, freshwater	
		19,2 mg/kg	PNEC sediment, marine water	
		95,9 mg/kg	PNEC sediment, freshwater	
		4,25 mg/l	PNEC sewage treatment plant (STP)	
90-72-2	2,4,6-Tris (dimethylaminomethyl) phenol	0,0084 mg/l	PNEC aquatic, marine water	
		0,2 mg/l	PNEC sewage treatment plant (STP)	
		0,084 mg/l	PNEC aquatic, freshwater	

### Additional advice

The statutory local and national regulations have to be observed.

### 8.2. Exposure controls

#### Respiratory protection

If ventilation insufficient, wear respiratory protection.

Breathing apparatus in the event of aerosol or mist formation.

#### Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

#### Eye protection

tightly fitting goggles

#### Other protection measures

protective clothing

#### Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

pasty

#### Colour

green

#### Odour

hardly noticeable

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	11-12	20 °C			1:1 in water
boiling point	> 200 °C				
melting point	not determined				



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	Value	Temperature	at	Method	Remark
<b>Flash point</b>	> 100 °C			DIN 51758	Pensky-Martens Closed Cup
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not applicable				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity kinematic</b>	not determined	40 °C			
<b>Viscosity dynamic</b>	not determined				

**Oxidising properties**

No information available.

**Explosive properties**

No information available.

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidising agents.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials****Substances to avoid**

Alkali (lye), concentrated

Acid, concentrated

Oxidising agent, strong

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

Nitrous oxides (NO<sub>x</sub>)

Toxic gases/vapours

Metaloxides

**Thermal decomposition**

Remark No decomposition if used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 2000 mg/kg	rat		CAS: 26950-63-0
<b>LD50 acute dermal</b>	> 1000 mg/kg	rabbit		CAS: 26950-63-0
<b>Skin irritation</b>	corrosive	rabbit	OECD 404	
<b>Eye irritation</b>	corrosive	rabbit eye	OECD 405	
<b>Skin sensitization</b>	sensitizing	Guinea pig	OECD 406	

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Chronic Toxicity</b>	NOAEL 50 mg/kg (90 d) Repeated Dose 90-Day Oral Toxicity Study in Rodents OECD 408			-

**Mutagenicity**

No experimental information on genotoxicity in vitro available.

**Carcinogenicity**

No indications of carcinogenic effects are available from long-term trials.

**Experiences made from practice**

Corrosive effect on skin and mucous membrane.

Sensitization through skin contact possible.

Causes corrosions.

Risk of strong eye injuries.



**Additional information**

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 330 mg/l (96 h)	Fish	EPA OPPTS EPA OTS 797. 1400	CAS: 112-24-3
<b>Daphnia</b>	EC50 31,1 mg/l (48 h)	Daphnia magna	EU EC C.2 Acute Toxicity for Daphnia	CAS: 112-24-3
<b>Algae</b>	ErC50 20 mg/l (72 h)	Green algae	OECD 201	CAS: 112-24-3
<b>Bacteria</b>	EC50 800 mg/l (30 min)	Leuciscus idus		CAS: 112-24-3

**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	0 % (162 d) CAS: 112-24-3		OECD 301 D	not degradable
<b>Degradability</b>	4 % (28 d) CAS: 90-72-2		OECD 301 D	not degradable

**12.3. Bioaccumulative potential**

Slight bioaccumulation potential.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Other adverse effects****General regulation**

Harmful to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste code No.**

07 02 04\*

**Name of waste**

other organic solvents, washing liquids and mother liquors

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**Recommendations for the product**

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

**Recommendations for packaging**

Empty containers can be deposited after cleaning in accordance with the local waste regulations.

Dispose of according to the local waste regulations.

**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	2735	2735	2735
<b>14.2. UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, PROPOXYLATED)	AMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, PROPOXYLATED)	Amines, liquid, corrosive, n.o.s. (TRIETHYLENETETRAMINE, PROPOXYLATED)
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable

**Land and inland navigation transport ADR/RID**

Hazard label(s) 8

tunnel restriction code E

Special provisions 274

Classification code C7

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC standard**

VOC content 0 %

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Training advice**

When grinding/processing the cured material, a dust containing quartz can be produced.

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

For industrial use only.

**Further information**

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.



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**WEICON A Hardener**

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.3

H302 Harmful if swallowed.  
H302; -?-  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.